

[AN AIRCRAFT USING ENGINE-POWERED, SWIPING ROTATING-BODIES TO FLY]

Abstract

The current invention is a new type of engine powered-aircraft, which uses engine power also to rotate the rotating-bodies to generate lift-force. By moving the rotating-bodies perpendicular to their rotation-axis, lift-force is generated. Due to the flexible connection between the rotating-bodies and their pulley, the rotating-bodies can swipe backward. This in turn, reduces the drag-force, by reducing the turbulence behind the rotating-bodies and by changing the angle at which the wind hits the rotating-bodies. By generating more lift force at lower speeds, and by less drag-force due to swiping back of the rotating-bodies, this aircraft can take-off, and accelerate, faster and has lower fuel consumption than previous designed aircrafts using rotating-bodies. In addition, current invention benefits from inflatable rotating-bodies, which whenever needed, can be deflated to make the machine smaller, more suitable and easier to transport. Placing the rotating-bodies higher than the center of gravity, and higher than the point of effect of thrust-force, and swiping back the rotating-bod-

ies, help neutralizing the reaction-force generated due to the rotation of the rotating-bodies. The current invention benefits from less or no need to runway for take-off, and landing, due to generation of more lift-force by engine-power-rotated rotating-bodies at lower speeds and safer landing if any problem happens with the thrust-force generation, and has a very stable flight, due to the gyro effect of the rotating-bodies.